

PATENT NUMBER

## U.S. UTILITY Patent Application

**O.I.P.E.**

PATENT DATE

SCANNED

**Q.A.**

54

APPLICATION NO.  
09/832541

CONT/PRIOR

**CLASS**

514

SUBCLASS

50

ART UNIT

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

**EXAMINEE**

oil

TITLE	APPLICANTS
1. Chief Executive Officer	[Name]
2. Director of Finance	[Name]
3. Director of Operations	[Name]
4. Director of Marketing	[Name]
5. Director of Human Resources	[Name]
6. Director of Information Technology	[Name]
7. Director of Legal Affairs	[Name]
8. Director of Public Relations	[Name]
9. Director of Environmental Affairs	[Name]
10. Director of Safety and Security	[Name]
11. Director of Quality Management	[Name]
12. Director of Compliance	[Name]
13. Director of Sustainability	[Name]
14. Director of Corporate Governance	[Name]
15. Director of Investor Relations	[Name]
16. Director of Treasury	[Name]
17. Director of Risk Management	[Name]
18. Director of Internal Audit	[Name]
19. Director of External Audit	[Name]
20. Director of Tax	[Name]
21. Director of Accounting	[Name]
22. Director of Payroll	[Name]
23. Director of Procurement	[Name]
24. Director of Logistics	[Name]
25. Director of Supply Chain Management	[Name]
26. Director of Manufacturing	[Name]
27. Director of Production	[Name]
28. Director of Sales	[Name]
29. Director of Distribution	[Name]
30. Director of Customer Service	[Name]
31. Director of Research and Development	[Name]
32. Director of Innovation	[Name]
33. Director of Intellectual Property	[Name]
34. Director of Patent Law	[Name]
35. Director of Trademark Law	[Name]
36. Director of Copyright Law	[Name]
37. Director of Trade Secret Law	[Name]
38. Director of Contract Law	[Name]
39. Director of Tort Law	[Name]
40. Director of Criminal Law	[Name]
41. Director of Civil Law	[Name]
42. Director of Administrative Law	[Name]
43. Director of Regulatory Law	[Name]
44. Director of Environmental Law	[Name]
45. Director of Labor Law	[Name]
46. Director of Immigration Law	[Name]
47. Director of International Law	[Name]
48. Director of Maritime Law	[Name]
49. Director of Space Law	[Name]
50. Director of Cyber Law	[Name]
51. Director of Data Privacy Law	[Name]
52. Director of Consumer Protection Law	[Name]
53. Director of Financial Services Law	[Name]
54. Director of Insurance Law	[Name]
55. Director of Real Estate Law	[Name]
56. Director of Energy Law	[Name]
57. Director of Transportation Law	[Name]
58. Director of Telecommunications Law	[Name]
59. Director of Media Law	[Name]
60. Director of Entertainment Law	[Name]
61. Director of Sports Law	[Name]
62. Director of Gambling Law	[Name]
63. Director of Alcohol Law	[Name]
64. Director of Tobacco Law	[Name]
65. Director of Firearms Law	[Name]
66. Director of Cannabis Law	[Name]
67. Director of Cryptocurrency Law	[Name]
68. Director of Blockchain Law	[Name]
69. Director of Artificial Intelligence Law	[Name]
70. Director of Robotics Law	[Name]
71. Director of Nanotechnology Law	[Name]
72. Director of Biotechnology Law	[Name]
73. Director of Pharmaceutical Law	[Name]
74. Director of Medical Device Law	[Name]
75. Director of Food and Drug Law	[Name]
76. Director of Agriculture Law	[Name]
77. Director of Forestry Law	[Name]
78. Director of Fisheries Law	[Name]
79. Director of Wildlife Law	[Name]
80. Director of Conservation Law	[Name]
81. Director of Natural Resource Law	[Name]
82. Director of Land Use Law	[Name]
83. Director of Zoning Law	[Name]
84. Director of Planning Law	[Name]
85. Director of Urban Design Law	[Name]
86. Director of Architecture Law	[Name]
87. Director of Engineering Law	[Name]
88. Director of Construction Law	[Name]
89. Director of Infrastructure Law	[Name]
90. Director of Transportation Law	[Name]
91. Director of Aviation Law	[Name]
92. Director of Maritime Law	[Name]
93. Director of Space Law	[Name]
94. Director of Cyber Law	[Name]
95. Director of Data Privacy Law	[Name]
96. Director of Consumer Protection Law	[Name]
97. Director of Financial Services Law	[Name]
98. Director of Insurance Law	[Name]
99. Director of Real Estate Law	[Name]
100. Director of Energy Law	[Name]

David Morgenstern  
Juan Arhancet  
Howard Berk  
William Moench

Process and catalyst for dehydrogenating primary alcohols to make carboxylic acid salts

PTO-2040  
12/89

**ISSUING CLASSIFICATION**

[illegible]

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	Sheets Drwg.	Figs. Drwg.	Print Fig.	Total Claims	Print Claim for O.G.
<input type="checkbox"/> The term of this patent subsequent to _____ (date) has been disclaimed.	_____ (Assistant Examiner) (Date)			<b>NOTICE OF ALLOWANCE MAILED</b> _____	
<input type="checkbox"/> The term of this patent shall not extend beyond the expiration date of U.S. Patent. No. _____ _____ _____	_____ (Primary Examiner) (Date)			<b>ISSUE FEE</b> Amount Due. _____ Date Paid _____	
<input type="checkbox"/> The terminal _____ months of this patent have been disclaimed.	_____ (Legal Instruments Examiner) (Date)			<b>ISSUE BATCH NUMBER</b> _____	
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